

Date: Wednesday, 28/01/2009 10:48:38 AM  
 User: Linda Lacelle

# Process Sheet

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : HANDLE AND LOCK- DOWN ASSY  
 Job Number : 45308  
 Estimate Number : 13525  
 P.O. Number :  
 This Issue : 28/01/2009 S.O. No. :  
 Prsht Rev. : NC Part Number : D3451043  
 First Issue : / / Type : LARGE FAB ASSY Drawing Number : D3451 REVA  
 Previous Run : 42348 Project Number : N/A  
 Material :  
 Due Date : 13/02/2009 Qty: 8 Um: Each  
 Written By :  
 Checked & Approved By : MF 09-01-28  
 Comment : Est Rev:A 08-06-27 new issue DD verified by:ec

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 D34513 Tube Handle Arm



Comment: Qty.: 2.0000 Each(s)/Unit Total : 16.0000 Each(s)  
 Tube Handle Arm  
 batch: 341460 ✓ PC 09-02-11 18 st

2.0 GP211 Rubber Handle



Comment: Qty.: 2.0000 Each(s)/Unit Total : 16.0000 Each(s)  
 Rubber Handle  
 batch: M109006 ✓ PC 09-02-11

3.0 PB6743001103 Tube Handle



Comment: Qty.: 1.0000 Each(s)/Unit Total : 8.0000 Each(s)  
 Tube Handle  
 batch: 341473 ✓ PC 09-02-11

4.0 LARGE FAB 1 LARGE FABRICATION RESOURCE 1



Comment: LARGE FABRICATION RESOURCE 1  
 1- weld as per dwg PB67-43001 PC 09-02-11

5.0 QC9 VISUAL WELDING INSPECTION



Comment: VISUAL WELDING INSPECTION BE 09/02/12 (BX)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HANDLE AND LOCK- DOWN ASSY

Job Number: 45308

Part Number: D3451043

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

S 09/02/12 (X8)

7.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

M- 09/02/13

8.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat Green Sandtex (Ref: 4.3.5.8) as per QSI 005 4.3

M 102316

09 (8X)

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

11-20  
320°F  
11-50

09/02/14

9.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

09/02/19 (8)

10.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

1- assemble rubber handle as per dwg PB67-43001

09/02/19 (8)

11.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

09/02/19

12.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location:

452

9/2/19

80

13.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

09/02/2019

mf 09-02-19

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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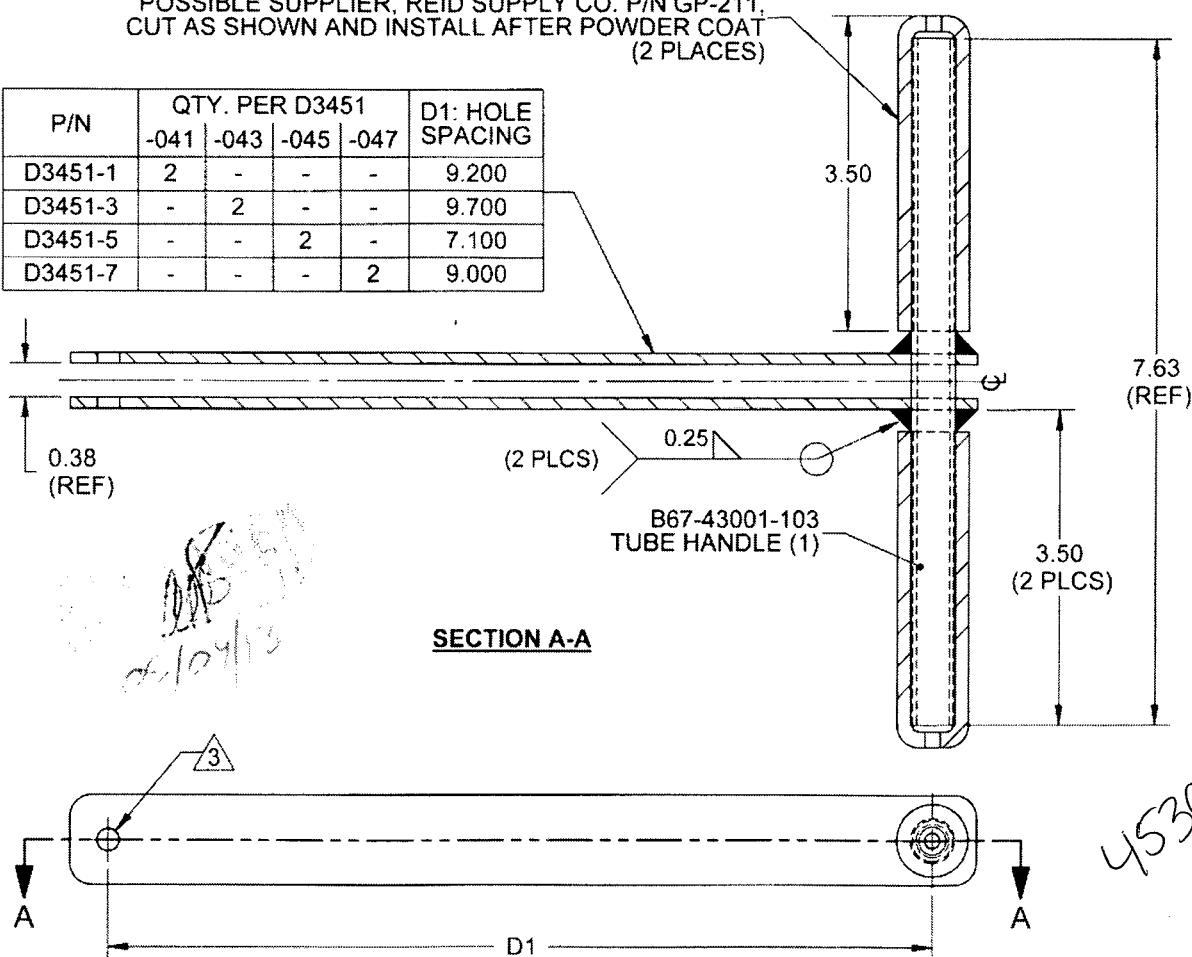
**NOTE:** Date & initial all entries



DESIGN	DRAWN BY	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO. <b>D3451</b>	REV. A SHEET 1 OF 2
DATE <b>05.08.25</b>	TITLE <b>HANDLE &amp; LOCK-DOWN ASS'Y</b>		SCALE 1:2
A	05.08.25	NEW ISSUE	

0.50" ID x 4.875" LONG BLACK VINYL HANDLE,  
POSSIBLE SUPPLIER, REID SUPPLY CO. P/N GP-211,  
CUT AS SHOWN AND INSTALL AFTER POWDER COAT  
(2 PLACES)

P/N	QTY. PER D3451				D1: HOLE SPACING
	-041	-043	-045	-047	
D3451-1	2	-	-	-	9.200
D3451-3	-	2	-	-	9.700
D3451-5	-	-	2	-	7.100
D3451-7	-	-	-	2	9.000



**D3451-041/-043/-045/-047 HANDLE & LOCK-DOWN ASS'Y**

**D3451-041 SUPERSEDES PREMIER P/N B67-43001-41**

**D3451-045 SUPERSEDES PREMIER P/N B67-43001-39**

**D3451-047 SUPERSEDES PREMIER P/N B67-43001-55**

**NOTES:**

- 1) WELD PER DART QSI 004
- 2) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) MASK BEFORE PAINTING.
- 4) FINISH: POWDER COAT PAINT GREEN SANDTEX (4.3.5.8) PER DART QSI 005 4.3
- 5) PART IS SYMETRICAL ABOUT CENTER LINE.
- 6) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 7) ALL DIMENSIONS ARE IN INCHES
- 8) BREAK ALL SHARP EDGES 0.005 TO 0.010

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

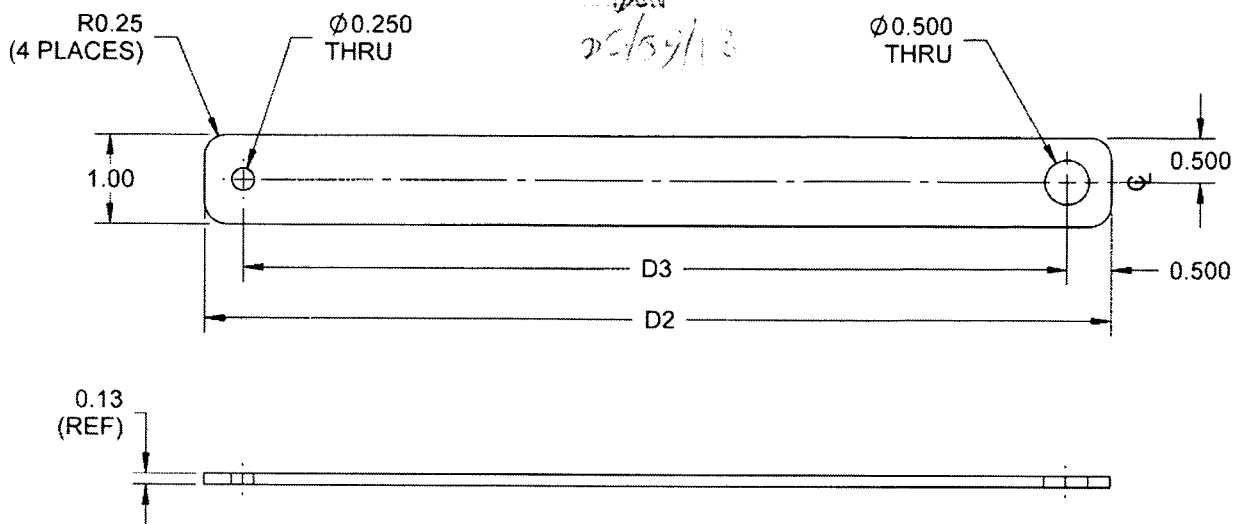
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3451	REV. A SHEET 2 OF 2
DATE 05.08.25		TITLE HANDLE & LOCK-DOWN ASS'Y	SCALE 1:2



P/N	D2: CUT LENGHT	D3: HOLE SPACING
D3451-1	10.25	9.200
D3451-3	10.63	9.700
D3451-5	8.00	7.100
D3451-7	10.00	9.000

#### **D3451-1/-3/-5/-7 TUBE HANDLE ARMS**

**D3451-1 SUPERSEDES PREMIER P/N B67-43001-303**

**D3451-5 SUPERSEDES PREMIER P/N B67-43001-301**

**D3451-7 SUPERSEDES PREMIER P/N B67-43001-101**

#### **NOTES:**

- 1) MATERIAL: 6061-T6 (OR 6061-T651/T6510/T6511/T62) BAR  
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR  
PER AMS-QQ-A-200/8 (OR AMS 4160)  
(REF. DART SPEC. M6061T6B0.125)
- 2) PART IS SYMETRICAL ABOUT CENTER LINE.
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010

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